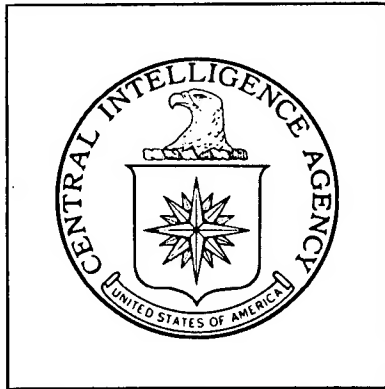


Top Secret



**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Selected Copper Production Facilities

China

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RCS 13/0023/71

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report updates the previous basic reporting on five of the major copper production facilities in China. It is based on photography from December 1969 to February 1971.

A possible electrolytic cell building was observed in the early stage of construction at the Shen-hung-ching plant in December 1970. Other changes include the completion of a new fabrication area at the Pai-yin plant and minor construction activity at the Kun-ming and Chu-chou plants. No apparent changes were observed at the Shen-yang plant during this reporting period.

The plants at Chu-chou, Pai-yin, Shen-hung-ching, and Shen-yang were observed in operation on all referenced photography. The Kun-ming Copper Smelter was observed in operation on all photographic coverage except that of

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- 1 -

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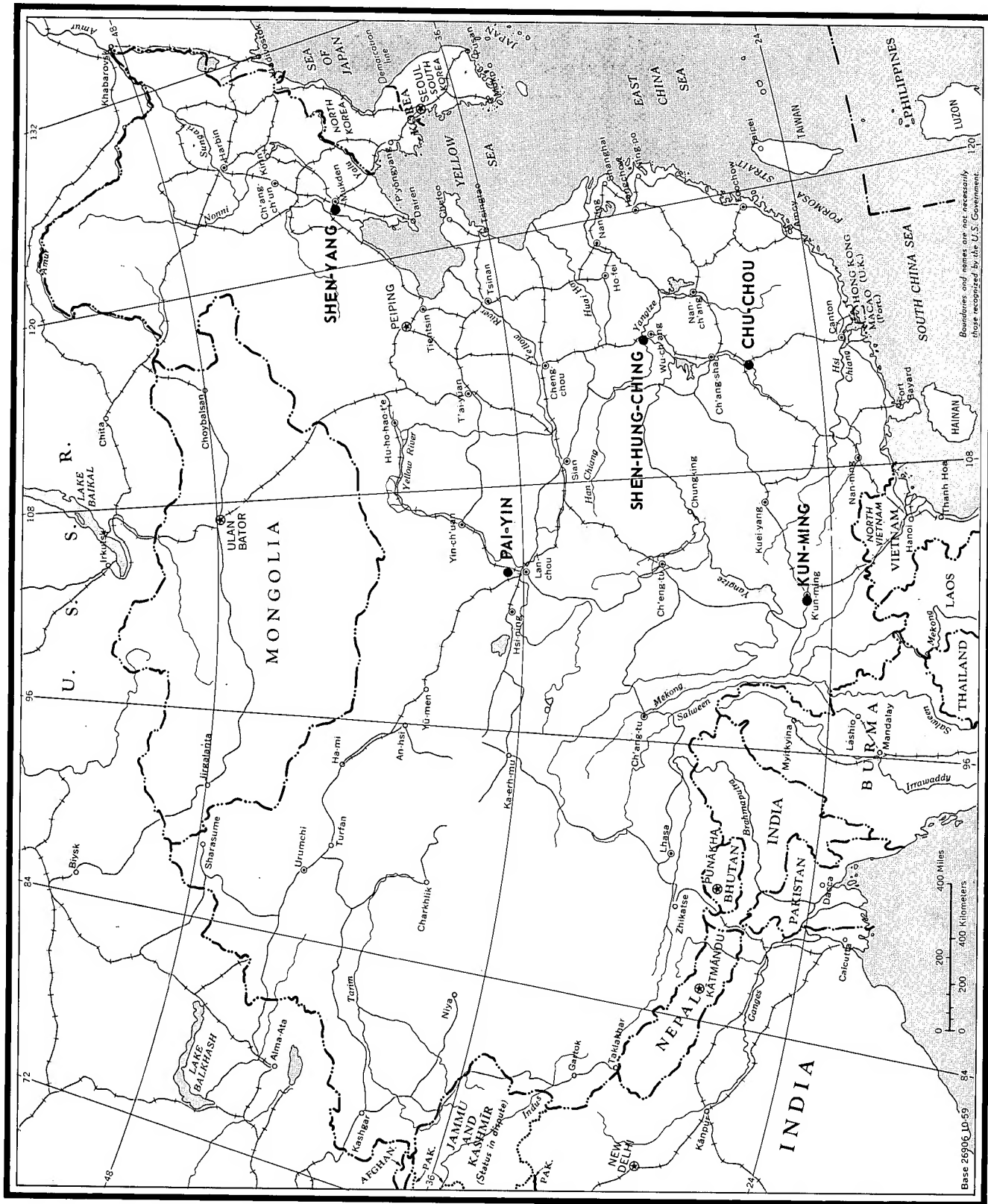


FIGURE 1. LOCATION MAP.

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INTRODUCTION

This report presents information on the operational status of the following five copper production facilities in China and describes any changes since the previous report.

Other nonferrous metals are produced at the Chu-chou and Shen-yang plants; however, copper production at each of the five plants is the primary concern of this report.

1. Chu-chou Nonferrous Metals Plant 601
2. Kun-ming Copper Smelter and Refinery Ta-pu-chi
3. Pai-yin Copper Smelter and Refinery Plant
4. Shen-hung-ching Copper Smelter
5. Shen-yang Nonferrous Metals Plant

Requirement

COMIREX N01

Support Number 421991

Documents

- CIA. RCS - 13/0032/70, Selected Copper Production Facilities, China
May 1970, [] (TOP SECRET CHESS RUFF) 25X1
- CIA. RCS - 13/0140/69, Selected Copper Production Facilities, China
May 1969, [] (TOP SECRET CHESS RUFF) 25X1
- CIA. DDI/IAR 85003, Selected Nonferrous Metals Plants, Communist China
July 1967, [] (TOP SECRET CHESS RUFF) 25X1

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Kun-ming Copper Smelter and Refinery Ta-pu-chi		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48RTC655772	25-05-53N 102-40-27E	
MAP REFERENCE		
ACIC. USATC, Series 200. Sheet M0496-17HL. 3rd ed. Jan 68. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

A roof has been placed over the overhead crane serving the ore unloading and preparation facility and numerous support buildings have been constructed at Kun-ming Copper Smelter and Refinery Ta-pu-chi since September 1969, the date of the latest photography used in the previous report (see Figure 3).

Smoke was seen coming from the stack serving the smelter on [REDACTED] indicating that the plant was operating on these dates. No smoke could be seen coming from the plant on [REDACTED]

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pai-yin Copper Smelter and Refinery Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48SVR290450	36-32-53N 104-11-52E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0383-22HL. 3rd ed. Dec 68. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

A new fabrication area has been completed at Pai-yin Copper Smelter and Refinery Plant since January 1970, the date of the latest photography used in the previous report (see Figure 4). Ground scarring for the new fabrication buildings, located at the southwest corner of the plant, was first evident in June 1969. The new buildings appeared externally complete on photography of [REDACTED] In addition, two new small support buildings had been erected and a large support building was being constructed in the plant area.

A newly identified probable precious metals recovery section is located in the western section of the plant. It was constructed at the same time as the original plant.

The entire plant appeared very active during the period covered by this report. Smoke seen coming from the stack serving the smelter indicated that it was in operation on all of the referenced photography. Changes in the number of rail cars, fumes coming from the probable precious metals recovery section, and stains on numerous processing buildings were also observed at the plant during this reporting period.

-9-
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FIGURE 5. SHEN-HUNG-CHING COPPER SMELTER.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shen-hung-ching Copper Smelter		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RLJ050400	30-10-45N 114-55-42E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0493-11HL, 4th ed, Jul 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Construction of possible electrolytic cell building has been started at Shen-hung-ching Copper Smelter since October 1969, the date of the latest photography used in the previous report. Ground scarring and the foundation for the possible electrolytic cell building, located in the southwest corner of the plant, were first observed in August 1970. As of December 1970 the new building appeared to be in the early stage of construction (see Figure 5).

Smoke seen coming from the stack serving the smelter indicated that it was in operation on all of the referenced photography.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shen-yang Nonferrous Metals Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWG302283	41-48-37N 123-21-58E	
MAP REFERENCE		
USATC, Series 200, Sheet M0290-11HL, 4th ed. Jan 66. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Shen-yang Nonferrous Metals Plant since March 1970, the date of the latest photography used in the previous report.

The plant was in operation on all of the referenced photography. On [] smoke was observed coming from the stack which serves both the lead smelter and the northern copper smelter. This smoke prevented observation of the stack which serves the southern copper smelter. In July and December 1970, smoke was observed coming from the two stacks which serve both of the copper smelters and the lead smelter.

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In January 1971 it appeared that only the southern copper smelter was in operation (see Figure 6).

The copper refinery was only observed operating in January 1971, when fumes and vapor were observed rising from the cell building. No indications of production activity were observed at the refinery on photography of March, July, and December 1970.

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